

ANTENNA DIRECTIVITY ESTIMATOR FOR A RECONFIGURABLE ANTENNA

ABSTRACT OF THE DISCLOSURE

A method and apparatus for redistributing power radiated by an antenna
5 comprised of a plurality of antenna elements. An antenna directivity estimator function is
performed to screen out inappropriate antenna directivity profiles from a plurality of
antenna directivity profiles, thereby determining one or more remaining, appropriate
antenna directivity profiles. An optimizer function is performed on the remaining,
appropriate antenna element directivities to determine a phase distribution for the antenna
10 elements based on a desired power distribution for the antenna.

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